

BECHEV, Ivan

Unification, simplification and typification in the machinery industry.
Ratsionalizatsiia 11 no. 8:27-29 '61.

(Machinery industry)

BECHEV, Ivan

New technological processes in the production of fastenings,
and the role of national standards. Ratsionalizatsiia no.6:26-28
'62.

MECHEV, Ivan

Bulgarian State Standard 919-62: Springs for Mattresses.
Ratsionalizatsia 13 nc.7:36 '63.

STOIANOV, Stoian, inzh.; BECHEV, Ivan

A conference on the unification of national standards in mechanical engineering. Ratsionalizatsiya 13 no.12:31 '63.

BECHOV, Ivan, entredix

~~Some problems connected with drawing up state standards.~~
Natsionalizatsiya M. no.12,27-31 '64.

1. Institute of Standardization, Measures, and Measuring Instruments, Sofia.

BECHIN, Aleksandr Ivanovich; POGODIN, L.Ye., red.; SAVCHENKO, Ye.V..
tekhn.red.

[Economic conditions in capitalist countries] *Ekonicheskoe*
polozhenie kapitalisticheskikh stran. Moscow, Izd-vo "Znanie,"
1960. 47 p. (Vsesotsuznnoe obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znanii. Ser.7, Mezhdunarodnaisa, no.23).
(MIRA 14:1)

(Economic conditions)

MANUKYAN, A.A.; GLUSHKOV, V.P.; SHVEDKOVA, V.M.; SVIRIDOVA, Z.P.; CHEBOTA-
REVA, Ye.A.; SHUMILIN, V.I.; PUDINA, K.V.; BRAGINA, N.M.; LUTSKAYA,
Ye.Ye.; KODACHENKO, A.S.; KOSOVA, V.A.; MOKLYARSKIY, B.I.; GRECHIKHIN,
A.A.; KULIKOV, N.I.; RYDVANOV, N.F.; BEL'CHUK, A.I.; VINTSER, Yu.I.;
ROZENTAL', Ye.I.; BELOUS, T.Ya.; SIDOROV, V.F.; ZHDANOVA, L.P.;
ALEKSANDROVSKAYA, L.I.; KOVAL', V.V.; KHAVINSON, Ya.S., glavnnyy red.;
SOKOLOV, I.A., zam.glavnogo red.; ALEKSEYEV, A.M., red.; ARZUMANIAN,
A.A., red.; BELYAKOV, A.S., red.; BECHIN, A.I., red.; VARGA, Ye.S.,
red.; LEMIN, I.M., red.; LYUBIMOVA, V.V., red.; SKOROV, G.Ye., red.
V redaktyrovaniu uchastvovali: SHAPIRO, A.I., red.; TATISHCHEV, S.I..
KOVARGIN, Ye., tekhn.red.

[Economic conditions of capitalistic countries; review of business
conditions for 1958 and the beginning of 1959] *Ekonicheskoe polo-
zhenie kapitalisticheskikh stran; kon'yunktturnyi obzor za 1958 g.
i nachalo 1959 g.* Moskva, Izd-vo "Pravda," 1959. 127 p. (Prilo-
zhenie k zhurnalnu "Mirovaya ekonomika i mezhunarodnye otnosheniiia,"
no.8, avgust 1959 g.) (MIRA 12:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhunarodnykh
otnosheniy. 2. Kollektiv sotrudnikov kon'yunkturnogo sektora Insti-
tuta mirovoy ekonomiki i mezhunarodnykh otnosheniy AN SSSR (for
Glushkov, Shvedkova, Sviridova, Chebotareva, Shumilin, Pudina, Bragina,
Lutskaya, Kodachenko, Kosova, Moklyarskiy, Grechikhin, Kulikov, Rydva-
nov, Bel'chuk, Vintser, Rozental', Belous, Sidorov, Zhdanova, Alek-
sandrovskaya, Koval'). (Economic conditions)

BECHIN, A.I.; VINTSER, Yu.I.; MANUKYAN, A.A.; SOKOLOV, I.A., red.;
TATISHCHEV, S.I., red.

[Economic conditions of capitalist countries; general survey
for 1959 and the beginning of 1960] Ekonomicheskoe polozhenie
kapitalisticheskikh stran: kon'funkturnyi obzor za 1959 g. i
nachalo 1960 g. Moakva, Izd-vo "Pravda", 1960. 119 p. (Pri-
lozenie k zhurnalu "Mirovaya ekonomika i mezhdunarodnye otno-
sheniia," no.8, avgust, 1960 g.). (MIRA 13:8)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdu-
narodnykh otnosheniy.
(Economic conditions)

BECHIN, A.

Problems in the theory of the reproduction of the means of production.
Vop. ekon. no.2:121-131 F '62. (MIRA 15:1)
(Economics)

BECHIN, A.

Categories of reproduction and the methodology of economic
analysis. Vop. ekon. no.2:109-122 F '64. (MIRA 17:3)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9

BRCHIN, A.P.

Hydraulic filling of the cells of a sheet piling barrier. Gidr.stroi. 22
no.8:9-11 Ag '53. (MLRA 6:8)
(Hydraulic engineering)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9"

~~BECHIN, A.P., Inzhener.~~

Hydromechanical methods of foundation ditch channeling. Gidr.stroi. 22 no.11:
11-12 M-D '53.
(MIRA 6:11)
(Hydraulic engineering)

BECHIN, A.P.

USSR/Miscellaneous - Construction work

Card : 1/1 Pub. 71 - 15/17

Authors : Bechin, A. P., Engineer

Title : Drainage of foundation pits of the Kakhovsk hydroelectric plant

Periodical : Mekh. trud. rab. 4, 40 - 43, June 1954

Abstract : The difficulties involved in draining the foundation pits of the Kakhovsk hydroelectric station, are described. Table; drawings.

Institution : ...

Submitted : ...

BECHIN, A. (g. Kakhovka)

Construction on the Dnieper river. Tekh.mcl. 22 no.4;1-3 Ap '54.
(MLRA 7:4)

1. Zamestitel' glavnogo inzhenera Dneprostroya.
(Kakhovka hydroelectric power station)

BECHIN, A.P., inzhener

Mechanization of trench digging and filling of cofferdams at the Kakhovka
Water Power Installation. Mekh.trud.rab. 9 no.4:8-12 Ap '55. (MIRA 8:?)
(Kakhovka hydroelectric power station) (Excavation)

RECHIN, A.P.

Lowering the consumption of cement in massive hydraulic engineering structures. Stroi.prom. 34 no.4;42-43 Ap '56. (MLRA 9:8)

1. Glavnyy inzhener stroitel'stva kanala Severnyy Donets-Donbass.
(Concrete construction)

BECHIN, Aleksey Petrovich, MIOSLAVSKIY, N.M., kand.tekhn.nauk, red.;
MURSKOI, E.L., red.izd-va.; MEL'NICHENKO, F.P., tekhn.red.

[Ways of shortening construction periods and lowering labor consumption
in concrete work; from experience in the construction of sluices for
the Upper Svir' and Kakhovka Hydroelectric Power Stations] Puti
sokrashcheniya srokov stroitel'stva i snisheniiia trudoemkosti betonnykh
rabot; iz opyta stroitel'stva shliuzov Verkhne-Svirs'koi i Kakhovskoi
GES. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam,
1958. 43 p.

(Concrete construction)
(Hydroelectric power stations)

14(6)

SOV/112-59-5-8754

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 47 (USSR)

AUTHOR: Bechin A. P.

TITLE: Ways for Shortening the Construction Time and Reducing Labor in
Concrete-Laying Work (From Construction Experience With Verkhne-Svirskiy
and Kakhovka Locks)

PERIODICAL: V sb.: Energ. str-vo. Z. M.-L., 1958, pp 22-29

ABSTRACT: A comparison between methods of organization and doing concrete-laying work in the Verkhne-Svirskiy (reinforced-concrete volume 34,000 m³) and Kakhovka (290,000 m³) locks shows that the builders managed to shorten the duration of concrete laying and erection work by one year. This was due to the following factors: (1) use of a mobile 2-boom bridge 150 t for laying the lock foundation (average monthly concrete placing 5,000 m³, maximum 11,613 m³); (2) using larger concrete-laying blocks, up to 1,000 m² area and up to 5.5 m high; (3) using 10-t, 15x8x6-m reinforcing trusses and truss

Card 1/2

SOV/112-59-5-8754

Ways for Shortening the Construction Time and Reducing Labor in Concrete

packages with welding reinforcements by the "bath" method; (4) placing embedded parts by the "unroughened concrete-surface" method; (5) using 2.5 x 5.0 x 0.08-m reinforced-concrete slabs made of grade-250 concrete, instead of formwork; (6) hatching the concrete block surface by pneumatic hammers.

A.A.S.

Card 2/2

BECHIN, Aleksey Petrovich; FILIMONOV, N.A., prof., Geroy Sotsialisticheskogo Truda; MOZHEVITINOV, A.L., red.; ZHITNIKOVA, O.S., tekhn. red.

[Construction of foundation pits for hydraulic power installations] Sooruzhenie kotlovanov gidrouzlov. Moskv., Gos. enerf.izd-vo, 1961. 179 p. (MIRA 15:3)
(Hydraulic structures) (Foundations)

CZECH

Influence of Janus Green B on the growth of bacteria
Fais J., Dvorska and H. Brezina, *Makromol Chem*,
1966, *Volume 177*, p. 1035-1042.
Janus Green B (I) is known to inhibit microorganisms like
mucoprotein and further growth of the fungi. It
also has some inhibitory influence on the
growth of the bacteria. The inhibition is
independent of the nature of the
bacteria and the concentration.

2. A gram-pos. bacteria is given from J. FAIS
However, it failed to affect the gram-neg. bacteria. The
interference of I with various enzyme systems is discussed.

L. J. Ursinck

BECHINIE, E., Dr.; HOLUB, V., Dr.

Landry's ascending paralysis associated with a tumor in a 10 year old boy. Cesk. pediat. 11 ne.10:772-775 Oct 56.

1. Z pathologickoanatomickeho ustavu Lekarske fakulty v Brne, predn. prof. MUDr. Vaclav Neumann. Z neurologickopsychiatrickeho oddeleni krajske detske nemocnice v Brne, predn. primar MUDr. Vaclav Holub.

(PARALYSIS, etiology and pathogenesis

spongioblastoma of spinal cord in child, causing acute ascending paralysis (Cx))

(GLIOBLASTOMA MULTIFORME, in infant and child

spinal cord, causing acute ascending paralysis (Cx))

(SPINAL CORD, neoplasms

spongioblastoma in child, causing acute ascending paralysis (Cx))

SVĚJDA, Jaroslav; HRYCHTOVÁ, Jana; BECHINÍK, Emanuel

The influence of regeneration on take-on and growth of the transplantable rat Brada-Svejda tumor. Neoplasma, Bratisl. 4 no.4:381-383 1957.

1. Patho-Anatomical Institute, Faculty of Medicine, Masaryk University, Brno.

(NEOPLASMS, exper.

eff. of regen. of subcutaneous tissue on take-on & growth of transplantable rat)

(REGENERATION
same)

~~BECHINIE, E. CZECHOSLOVAKIA, General Practitioners of PAUVICEY, RECIPUSIS~~

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37323.

Author : Bechinie, E.

Inst :

Title : Primary Epithelial Lung Cancer.

Orig Pub: Casop. Lekaru ceskych, 1957, 96, No 18, 547-554.

Abstract: Two cases of epithelial primary lung cancer are described, simulating clinically, in one case, bronchopneumonia, in the other case, tuberculosis. No characteristic symptoms were present. The importance of the cytological method of investigation in diagnosis and biopsy is stressed.

Card : 1/1

177

TOMAN, Miroslav; BECHINIE, Emanuel

Adrenogenital syndrome in newborn infant. Cesk. pediat 13 no.1:
20-26 5 Jan 58.

1. II. detska klinika MU v Brne, prednosta akademik Otakar Teyachl
Pathologickoanatomicky ustanov v Brne, prednosta prof. Dr. Jaroslav
Svejda. M. V., Brno, Cerna Pole.

(ADRENOGENITAL SYNDROME, in inf. & child
newborn (Cz))

(INFANT, NEWBORN, dis.
adrenogenital synd. (Cz))

MACKU, Milos; BECHINIE, Emanuel

Leukemia with a picture of poliomyelitis. Cesk.pediat. 15 no.4:
344-352 Ap '60.

1. Infekcni oddeleni Krajske detske nemocnice v Brne, prednosta
doc.dr. Vladimir Kluska, patologickoanatomicky ustav lekarske
fakulty v Brne, prednosta prof.dr. Jaroslav Svejda.

(LEUKEMIA diag.)
(POLIOMYELITIS diag.)

STRMISKA, J.; KUSAK, I.; BECHINIE, E.

Effect of the transarticular intramedullary fixation on the extremity.
Experimental study. Acta chir.orthop.traum.cech. 28 no.5:422-428
O '61.

1. Vyskumnny ustav traumatologicky v Brne, reditel prof. MUDr. Vladimir
Novak.

(JOINTS physiol) (FRACTURES surg)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9

BECHINSKIY, I., inzh.

Slaking of lime. Sel'. stroi. 13 no. 7:29 Jl '58. (MIRA 11:8)
(Lime)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9"

BAGIROV, M. A.; BECHKHAIZER, G. V.; DZHUVARLY, Ch. M.;
SHTEYNSHRAYBER, V. Ya.

Electrothermal action on oil-bearing layers. Trudy ENIN AN
Azerb. SSR 15:53-67 '62. (MIRA 15:10)

(Oil well logging, Electric)

BECHLEROWA, H.

"O Biedronce Pięciokropce i o trzech krawczykach" (On the brass-beetle with five dots and on three little tailors), by H. Bechlerowa. Reported in New Books (Nowe Ksiazki), N^o. 15, August 1, 1955

BECHNER, Aniela (Warszawa, Oddzial II Szpitala Miejskiego nr 2, ul. Leszno 15.)

Diagnostic difficulties in some bullous dermatoses; case report.
Przegl. derm., Warsz. 8 no.3:315-320 May-June 58.

J. Z Oddzialu II Szpitala Miejskiego nr 2 w Warszawie Ordynator: dr
I. Kwazehart.

(PIMPHIGUS, diag.
difficulties (Pol))

KWAZEBART, Ludwik; BECHNER, Adela

Psoriasis verruciformis. Przegl. derm. 49 no.3:199-206 '62.

1. Z Oddzialu Skorno-Wenerycznego II Szpitala Miejskiego nr 2 w
Warszawie Ordynator: doc. dr L. Kwazebart.
(PSORIASIS)

RECHNY, L.

Increasing the mechanization of foundries. Slevarenstvi 11
no.12:542-543 D'63.

Becht, J.

Our system of construction-industry index and technical development. p. 43.

EPITESUGYI SZEMLE. Budapest, Hungary. No. 2, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

BECHTEREVA, G.

"Method of Planning the Need for Horses on Collective Farms. Tr. from the Russian", P. 782, (ZA SOCIALISTICKÉ ZEMĚDĚLSTVÍ, Vol. 4, No. 7/8, July/Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

EFCHTLE, R.

Modern machines for oxygen cutting in metallurgy.

P. 166 (PRZEGLAD SPAWALNICTWA) (Warszawa, Poland) Vol 9, no.6, June 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5. 1958

BECHTLE, Richard, Dr Ing.; HYSING, Th., Dipl.-Ing.; JUFFY, E.A. [translator]

Newly designed flame cutting machines. Przegl spaw 14 no.12:
323-328 D '62.

323
328

L 45211-64 EWP(k)/EWP(e)/EWP(t)/ETI IJP(e) JD/JG
ACC NR: AP6026292 (N) SOURCE CODE: CZ/0012/66/000/003/0225/0234

AUTHOR: Jakes, D. -- Yakesh, D. ; Becvar, J. -- Bechvarzh, I. ; Skvor, F. --
Shkvor, F.

ORG: Institute of Nuclear Research, Czechoslovak Academy of Sciences, Rez near
Prague (Ustav jaderneho vyzkumu, Ceskoslovenska akademie ved)

TITLE: Sintering of UO_2 ceramics. Part 4. Sintering in the presence of some
activators

SOURCE: Silikaty, no. 3, 1966, 225-234

TOPIC TAGS: uranium dioxide, sintering, ceramics

ABSTRACT: Oxides of aluminum, calcium, yttrium, molybdenum, and vanadium
were studied as activators of uranium dioxide sintering.¹⁰ Uranium dioxide of
medium activity ($8\text{--}9 \text{ m}^2/\text{g}$) was activated by vanadium, yttrium, and aluminum.
Calcium oxide showed no measurable effect and molybdenum affected the process
unfavorably. The compactability of UO_2 was affected as well. The microsections
of sintered pellets showed an adverse effect of molybdenum and of ~ 1.5 per
cent Y_2O_3 . Molybdenum oxide was reduced to metal and vanadium pentoxide to

Cord 1/2

S/130/61/000/002/005/005
A006/A001

AUTHOR: Bechvarzh, Yaroslav, Engineer, Prague, ChSSR (Translated by I.
Gryaznovoy)

TITLE: Czechoslovakian Metallurgy Developing

PERIODICAL: Metallurg, 1961, No. 2, pp. 38-40

TEXT: Information is given on the development of Czechoslovakian metallurgy during the post-war period. The reconstruction of existing and the construction of new plants and equipment lead to an increase in the metal output by 1960, exceeding three times that of 1937. In 1958/59 11 coke batteries, 9 blast furnaces and 16 open hearth furnaces with total capacities of 3.8 million, 2.5 million and 2.54 million tons/year respectively, were constructed. From 1945 to 1960 a number of machines have been developed and reconstructed, including two blooming mills of 1.2 million tons yearly output each; two blooming mills had been redesigned yielding 80,000 tons/year; 10 section and sheet rolling mills of 2,475,000 tons/year total capacity; 3 pipe rolling mills (total capacity 145,000 t/year); 2 cold-rolling strip mills (160,000 t/year total capacity); 1 strip hot rolling mill, 1 wire drawing mill. The first ferroalloy plant was constructed in 1952,

Card 1/4

Czechoslovakian Metallurgy Developing

S/130/61/000/002/005/005
A006/A001

operating with furnaces of a total power as high as 82,000 kilovolt-ampere. The installation of new units raised by 1959 the output of cast iron to 4.3 million tons, steel output to 5.6 million tons, and rolled metal to 4.2 million tons. Steel production per head attained 450 kg. Presently, the average volume of blast furnaces in the ChSSR is 660 m³ (240 m³ minimum volume - 1,160 m³ maximum volume); their operation is mostly mechanized, automation will be started soon. By 1959 the iron content in the blast furnace charge was 39% on the average; sinter consumption per 1 ton cast iron was about 880 kg; coke consumption - 1,018 kg/t the mean coefficient of utilization of useful volume was 0.97. Slag yield was 1,050 kg/t of cast iron. Presently, 76 open-hearth furnaces are operating in the ChSSR, with an average bottom area of about 35 m². Steel is mainly produced in these furnaces (in 1960 - 6.8 million tons). The furnaces are mainly fuelled with mixed gases and mazut carburation. The output of rolled stock in 1960 was 4.6 million tons, including 24.6% sheets; 13.8% steel pipes, 2.1% welded pipes; 61.6% section and strip metal. Some data are given on the further development of Czechoslovakian metallurgy including the period from 1961 - 1965. It is planned to raise coke output to 11.3 million tons, cast iron to 7.65 million tons; steel to 10.5 million tons and rolled metal to 7.3 million tons. The coefficient of utilization of useful volume in blast furnaces will be improved to 0.75 and dry

Card 2/4

Czechoslovakian Metallurgy Developing

S/130/61/000/002/005/005
A006/A001

coke consumption will be cut down to 717 kg/ton of cast iron. Sinter production will attain by 1965, 13 million tons; blast temperature will be raised to 900°C. Open hearth process will play the main part in steelmaking for the coming 5 years. At the end of the third Five-Year-Plan, however, a new steelmaking process in oxygen converters will be brought into use. Open hearth steel production will increase by 1.88 million tons of 3.8 million tons of steel production total increase. This higher production figure will be achieved by reducing stillstand time due to repairs, the use of oxygen and mazut fuel; reconstruction of existing furnaces by increasing their capacity and modernizing their design, improved quality of the charge materials and organization of operation. New processes to be introduced will include: continuous steel casting, vacuum steel casting; vacuum casting of special steels with consumable electrodes; use of exothermal mixtures and risers. Some new steel grades will be developed such as weldable structural steel with 40 kg/mm² yield limit; steel for reinforced concrete structures, with 40 and 60 kg/mm² yield limits; high alloy steels and alloys for parts operating at temperatures up to 650°C; high-strength and ductile steel for automobile industry. The production of alloys will be developed including CaSiMn, CaSiAl deoxidizers, some quaternary deoxidizer systems, and ferrochromium with less than 0.02% C. In the production of ferroalloys, multi-stage processes will be replaced ✓

Card 3/4

Czechoslovakian Metallurgy Developing

S/130/61/000/002/005/005
A006/A001

by processes with a lesser number of stages or with one single stage. During the third Five-Year-Plan, a five-high rolling mill 1280 for the cold rolling and a continuous mill 1680 for the hot rolling of large strips will come into use. Trans former steel and dynamo steel strips will be rolled on the four-high mill 1280. Shops will be organized for resistance welding of 500 mm diameter pipes and for helical welding of 400 mm diameter pipes. The diameter of seamless pipes will be increased to 720 mm. It is expected that by 1965 steel production in Czechoslova kia will approach the steelmaking level of the United States.

Card 4/4

BECHYNE, J.

Wunsch, J. Construction of the bridge across the Vah River in Komarno. p. 189.
INZANYRSKE STAVBY, Praha, Vol. 3, no. 5, May 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

BECHYNE, J.

BECHYNE, J.; WUNSCH, J. Construction of the bridge across the Vah River
In Komarno. p. 189. INZENYRSKE STAVBY. Praha. Vol. 3, no. 5, May 1955.

SO: Monthly List of the East European Accession, (EEAL), LC. Vol. 4,
no. 10, Oct. 1955. Uncl.

BECHYNE, STANISLAV

Beton, Vyd. 1, Praha, Statni pedagogicke nakl., 19(52) (Ucebni tarty vysokych skol) Concrete. Vol. 2. Supporting walls, foundations for machines, properties and production of concrete. Diags., graphs

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 2, February, 1954, Uncl.

BECHYNE, Stanislav

BECHYNE, Stanislav

Betonove mosty. [Vyd. 1] Praha, Statni pedagogicke nakl., 1953. (Ucebni texty
vysokych skol) [Concrete Bridges. Vol. 1 diagrs.]

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4,
April 1954. Unclassified.

~~RECHTWE S.~~

VECHYR, J.

Fundamentals of the rheology of concrete. p.109 (Inzenyrske Stavby. Praha. Vol. 2, no. 6; June 1954) East
SC: Monthly List of European Acessions (LSIL), 10, Vol. 4, No. 4, June 1955, U.S.S.R.

BECHYNE, S.

Use of timber in concrete construction. (Conclusion) p. 364.

STAVBY. Praha. Vol. 2, no. 10, Oct. 1954

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

BECHYNE, S.

The development of modern concrete engineering. p. 174. (Inzenyrske Stavby,
Vol. 5, No. 4, Apr. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) 1C, Vol. 6, No. 8, Aug 1957. Uncl.

Parafina

CZECOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Ceramics. Glass. Binders. Concrete.

H-13

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15338.

Author : Bechyne S., Milcakova E.

Inst :

Title : Use of Inoculation Agents in Cement and Concrete.

Orig Pub: Stavivo, 1957, 35, No 8, 311-312

Abstract: Presentation of results of testing of specimens of cement and concrete with inoculants utilized as accelerators of hardening.

Card : 1/1

BECHYNE, Stanislav, akademik

"A treatise on building materials" by M. Duriez, J. Arrambide.
Reviewed by Stanislav Bechyne. Stav cas 11 no.4:294-296 '63.

BECHYNE, Stanislav, akademik

"Building materials" by Palotas Laszlo. Pts. 1-2. Reviewed
by Stanislav Bechyne. Stav cas 11 no.:414-415 '63.

BECHYNE, St., akademik

"Design and construction of industrial halls" by [dr.] Alexander Major, [prof.] Heinz Zeidler. Reviewed by St.Bechyne. Inz stavby ll no.9:357-358 S '63.

CCS, U. S.

1970, U. S.: "New winter-resistant varieties of ryebeers." Min High-
er Education MSSA, Pittsburgh Agricultural Academy, Pa., Haubens, 1 p.
(Dissertation on the Degree of Candidate in Agricultural Sciences)

So: Knirk-type leteops No 32, 1970. Norway

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M.

Abs Jour : Ref Zhur Biol., No 12, 1958, 53618

Author : Dichyus, K.

Inst : The Lithuanian Scientific Research Institute

Title : Varieties Grown in Lithuania

Orig Pub : Kartofel', 1957, No 4, 52-53

Abstract : The Lithuanian Scientific Research Institute raised the following potato varieties: Krakhmalistyy, obtained by means of individual selection from the Starkereiche variety; it is a medium ripening variety yielding 275 centners/ha. The Tiyesco variety was produced by crossing Yubel' x seedling 967 (s) 38; it is a medium-late variety and surpasses the yield of the Krakhmalistyy by 47 centners/ha. Punktas variety was obtained by crossing Pepo x seedling Solanum andigenum variant of tocanum x

Card 1/2

- 44 -

BECIRIC, Todor

Diagnostic value of myelography in hernia of the intervertebral disk. Srp arhiv lekar 82 no.2:215-219 P '54. (ERAL 3:7)

1. Neurohirurska klinika Medicinskog fakulteta u Beogradu,
upravnik: prof. dr. Slobodan Kostic. (Rad je urednistvo primilo
26-VI-1953 god.)

(INTERVERTEBRAL DISK DISPLACEMENT, diag.

*myelography, value)

(MYELOGRAPHY

*diag. of intervertebral disk rupt., value)

BECIRIC, Todor; PERISIC, Milutin

Intracranial meningioma. Srpski arh. celok. lek. 84 no.12:
1360-1370 Dec 56.

1. Neurohirurska klinika Medicinskog fakulteta u Beogradu
Upravnik: Slobodan Kostic.

(MENINGIOMA, case reports

brain, statist. (Ser))

(BRAIN NEOPLASMS, case reports

meningioma, statist. (Ser))

BECIRIC, Todor; STANKOVIC, Ivan

Optochiasmic arachnitis as a clinical and therapeutical problem.
Srpski arh. celok. lek. 85 no.2:161-166 Feb 57.

1. Neurohirurška klinika Medicinskog fakulteta u Beogradu.
Upravnik: prof. dr. Slobodan Kostic. Oftalmološka klinika
Medicinskog fakulteta u Beogradu. Upravnik: prof. dr.
Vladimir Čavka.

(ARACHNOID, dis.
optochiasmic arachnitis (Ser))

RECIRIC, T.; PEROVIC, M.

Diagnostic significance of vertebral arteriography. Neuropsihijatrija
7 no. 1-2:87-94 '59

1. Neurochirurska klinika Medicinskog fakulteta u Beogradu,
upravnik: prof. dr. S. Kostic.
(ANGIOGRAPHY)
(BRAIN dis.)

BECIRIC, T.doc.dr.

Significance of electroencephalography in cerebrocranial injuries.
Med. glasn. 13 no.7:369-375 Jl '59.

1. Neurochirurska klinika Medicinskog fakulteta u Beogradu, upravnik:
prof. dr S. Kostic.
(BRAIN wds. & inj.)
(ELECTROENCEPHALOGRAPHY)

BMCIRIC, Todor

Post-traumatic intracranial hemorrhages. Srpski arh. celok. lek.
87 no.7-8:643-653 Jl-Ag '69.

1. Neurochirurska klinika Medicinskog fakulteta u Beogradu, upravnik:
prof. dr Slobodan Kostic.
(CEREBRAL HEMORRHAGE)

BECIRIC, Todor; MAGULIC, Ilija

Problem of the differential diagnosis of tumors of the spinal cord from multiple sclerosis. Srpski arh. celok. lek. 87 no.11: 987-1000 N '59.

1. Neurochirurska klinika Medicinskog Fakulteta u Beogradu, Upravnik:
prof. dr Slobodan Kostic.
(SPINAL CORD neopl.)
(MULTIPLE SCLEROSIS diag.)

BECIRIC, T., doc. dr.; NAGULIC, I., dr.

Intracranial calcifications in children. Med. glasn. 14 no.11:
524-529 N '60.

1. Neurohirurska klinika Medicinskog fakulteta u Beogradu (Upravnik:
prof. dr Sl. Kostic).

(BRAIN dis) (CALCIFICATION)

BECIRIC, Todor

On compression lumbo-ischialgias. Srpski arh. celok. lek. 89 no.9:
935-944 S '61.

1. Neurochirurska Klinika Medicinskog fakulteta Univerziteta u Beogradu.
Upravnik: prof. dr Slobodan Kostic.

(SCIATICA)

MICIRIC, Mladen, prof. dr., MIKREVIC, Peter, asistent dr.

Recurrent meningitis and chronic post-traumatic rhinorrhea.
Vojnosanit pregi. 21 no.3:187-189 Mr '64.

I. Neuronirurska klinika, Medicinski fakultet u Beogradu.

ANGHEL, Otilia, prof. (Bucuresti); BECIU, Traian, prof. (Bucuresti)

Some problems related to the teaching of agriculture as a study
in the 8-year rural school. Natura Biologie 14 no.5:42-48
S-Q :62.

KRIKSCIKAS, Stasys; BECIUS, Bectius; KILAS, M., red.; SARKA, S.,
tekhn. red.

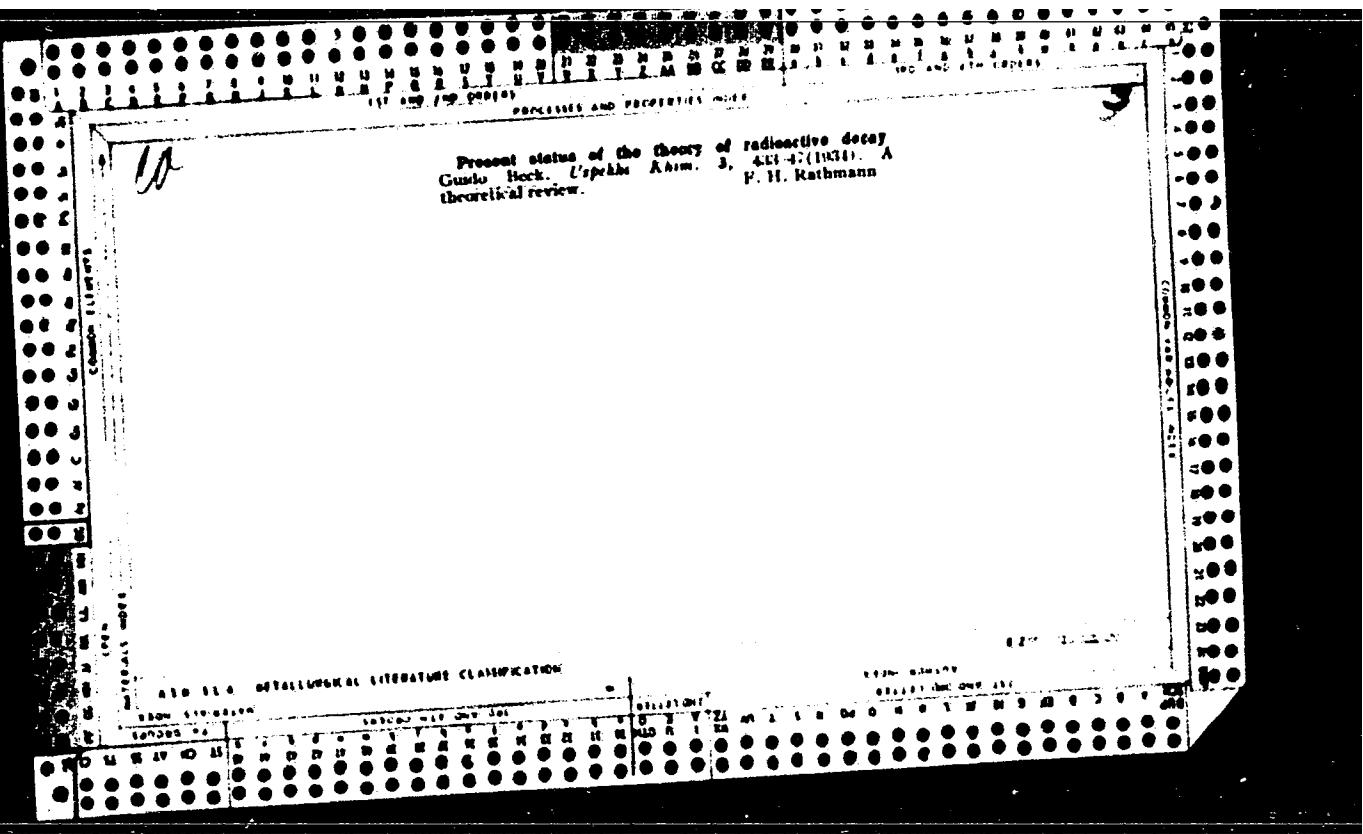
[Early potatoes] Ankstyvuju bulviu auginimas. Vilnius,
Valstybine politines ir mokslynes literaturos leidykla, 1961.
(MIRA 15:3)
102 p.
(Lithuania--Potatoes)

BECIUS, Kostas; DERESKEVICIUS, Kazys; KAMINSKAS, A., red.;
LUKOSEVICIUS, St., tekhn. red.

[Grain] Javai. Vilnius, Valstybine politires ir mokslynes
literaturoje leidykla, 1962. 229 p. (MIRA 15:3)
(Lithuania—Grain)

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9



APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9"

*BC**A-1*

Detection of aluminum with canthrin and of some heavy metals with crotothelin. G. Beck (Mikrochim. Acta, 1967, 2, 267-290; cf. A., 1969, 1221).—Al, Ga, Sc, and In salts all show an intense green fluorescence at 510 m μ when treated with an EtOH solution of NaP. If this fluorescence is suppressed by NaP it is either Al or Ga. If not suppressed by (NH₄)₂CO₃, NaP does not work if not suppressed by ammonium tetratoxide (Na₄T₄O₆). If the fluorescence is not suppressed by NaP and remains in the solution after saturation with H₂S it is due to Ga. 0.02 µg. of Re can be detected in 1 p.c. of solution if the fluorescence is examined in ultraviolet light. Crotothelin is reduced to a violet dye by Sn^{II}, UV, Ti^{IV}, Ru^{II}, Nb^{IV}, and lower oxides of Mo and W, enabling about 1 µg. of these metals to be detected.

J. W. S.

ASA SEA METALLURGICAL LITERATURE CLASSIFICATION

80

17-1

Microchemical detection of europium in mixtures of rare earths. G. Brix (Olkrochim. Acta, 1938, 2, 161-163).—In contrast with the lower valency states of Ti, Si, V, Nb, Mo, W, U, and Re, Eu³⁺ reduces "methylene green" (I) to a violet dye. No other rare-earth metals give this reaction, and Eu can be detected in a solution containing these metals by reducing it with Zn and HCl in presence of (I). The limit of sensitivity of the test is 3 µg. per c.c.
J. W. S.

J. W. S.

ASA 92A METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9"

- BEST*
1461. Contribution to the Theory of the Cherenkov Effect, by Guido Bonk.
Physical Review 74, p. 795-802, October 1, 1948.

The Cherenkov effect is derived from given initial conditions without a priori admission of the existence of the radiation as in a previous theory (I. Frank and Ig. Tamm, *Soviet Science (Doklady) de l'Academie des Sciences de l'URSS* 14, p. 109, 1937; Ig. Tamm, *Journal of Physics USSR* 1, p. 439, 1939). According to Frank and Tamm, the radiation is a natural consequence of relativistic electrodynamics, analogous to supersonic phenomena in the field of acoustics. A vigorous solution is given for the field of a point charge which, moving with uniform velocity, comes from a vacuum to enter the plane surface of an ideal classical dielectric at $t = 0$. The ideal dielectric medium, which has a dielectric constant ϵ , is assumed to be macroscopic and homogeneous and dispersion is neglected. This limits the validity of the obtained expressions to longer wave lengths or to spectral regions in which the dielectric is possibly constant. As the velocity of the particle approaches c , the solution represents a characteristic transition radiation. For velocities exceeding $c\sqrt{\epsilon}$, a

ABE-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM THIS SHEET
LAWRENCE BERKELEY NATIONAL LABORATORY

FROM THIS SHEET

FROM THIS SHEET

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9

characteristic cone is formed, as indicated by the solution.

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9"

BECK, GY.

"Innovator results and plans of our machine factories." p. 4. (Ujítok Lapja, Vol. 5, no. 4, Feb 53, Budapest)
"Results and faults in the Metalware and Machine Tool Factory." p. 4. (Ujítok Lapja, Vol. 5, no. 4, Feb 53, Budapest)
"We must make welding rods immediately." p. 5. (Ujítok Lapja, Vol. 5, No. 4, Feb 53, Budapest)
"Report from the Transportation Facilities Factory." p. 5. (Ujítok Lapja, Vol. 5, no. 4, Feb 53, Budapest)
"The Cutting Tools Factory must make post calculations." p. 5. (Ujítok Lapja, Vol. 5, no. 4, Feb 53, Budapest)
"Work Improvement activities in the Matyas Rakosi Machine Factory." p. 6. (Ujítok Lapja, Vol. 5, no. 4, Feb 53, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 54 Uncl

BECK, G.

BECK, G. Mechanized cow stable of the Michurin Collective Farm at Rakocsaba.
p. 73. Development in Soviet animal husbandry; statement by Janos Kato. p.76.

Vol. 8, no. 2, Feb. 1956.

AGRARTUDOMANY.

AGRICULTURE

Budapest, Hungary

So: East European Accession, Vol. 6, No. 5, May 1957

C. A.
B. C. L. M.

Indigo blue. Johnd Black, Hung. 130,261, Feb. 2,
1949. Fuming sulfuric acid (10%) (one gr. 1.83g) is added
with H_2SO_4 (61 Baumé) in such a manner that the liquid is
not heated above 60° 70°. The indigo is sulfonated with
this acid and worked up in the usual manner. Finally

CZECHOSLOVAKIA

BECK, J.

Dept. of Pharmaceutical Botany, Faculty of Pharmacy, Comenius Univ.
(Katedra Farmaceutickej botaniky Farmaceutickej fakulty UK), Bratislava

Bratislava, Farmaceuticky obzor, No 1 [Jan] 1967, pp 12-17

"On field research methods in medically useful plants."

TRACZYK, W.; SADOWSKI, B.; POBUJKOWSKI, A., KARCZ, S. [deceased]; BECK, J.

Functional conditions of certain subcortical centers and animal behavior. Acta physiol.polon. 11 no.5/6:899-901 '60.

1. Z Zakladu Fizjologii Polskiej Akademii Nauk w Warszawie,
Kierownik: prof.dr F.Gzubalski.

(BEHAVIOR)

(BRAIN physiol)

(REFLEX CONDITIONED)

BECK, Jozef

Effect of the stimulation of the hypothalamus on conditioned reflexes
in dogs before and after the administration of chlorpromazine. Rozpr.
wydz. nauk med. 7 no.1:87-99 '62.

1. Stypendysta PAN.
(CHLORPROMAZINE) (REFLEX CONDITIONED)
(HYPOTHALAMUS)

L 01074-66 EWP(t)/EWP(b) IJP(c) JD
ACCESSION NR: AT5022329

HU/2502/64/041/003/0291/0293

AUTHOR: Beck, Mihaly (Doctor) (Szeged); Dozsa, Laszlo (Szeged)

19

TITLE: Solubility of cadmium thiocyanate and cadmium cyanide

B+1

SOURCE: Academiae scientiarum hungaricae. Acta chimica, v. 41, no. 3, 1964, 291-293

TOPIC TAGS: solubility, cadmium compound, thiocyanate, cyanide

Abstract: [English article] Cadmium thiocyanate was prepared from a mixture of cadmium sulfate and ammonium thiocyanate in a 2.8:9.4 mole ratio. The saturation solubility of the product in water at 20°C was found to be 0.457 moles/l. The preparation of pure cadmium cyanide proved to be difficult owing to hydrolysis. The saturation solubility of the product in water at 20°C was 0.11 moles/l; however, this figure is by necessity only an approximate one. The existence of a mixed complex, Cd(II)EDTA(CN)³⁻ (where EDTA represents ethylenediamine tetraacetate), was proven.

ASSOCIATION: Reaction Kinetical Research Group of the Hungarian Academy of Sciences, Szeged; Institute of Inorganic and Analytical Chemistry, The University, Szeged)

Card 1/2

L 01074-66

ACCESSION NR: A75022329

SUBMITTED: 22Apr64

NO REF Sov: 008

ENCL: 00

OTHER: 000

SUB CODE: IC, GC

JPR8

m
Card 232

L 1156-66 ENT(m)/EPT(o)/EWP(j) WW/RM

ACCESSION NR: AT5025194

HU/2502/64/042/004/0321/0323

AUTHOR: Beck, Mihaly T. (Doctor)(Budapest); Gorog, Sandor (Doctor)(Budapest);
Kiss, Zoltan (Szeged)

TITLE: Effect of ethylenediaminetetraacetate on the decomposition of hydrogen peroxide catalyzed by trivalent iron

SOURCE: Academia scientiarum hungaricae, Acta chimica, v. 42, no. 4, 1964, 321-323

TOPIC TAGS: amine, acetate, hydrogen peroxide, chemical decomposition, catalytic cracking, iron

Abstract: [English article] The fact that the catalytic effect of trivalent iron on the decomposition of hydrogen peroxide decreases by the addition of ethylenediaminetetraacetate is well known. It was found, however, that a rate increase is evident at low ethylenediaminetetraacetate concentrations. This was attributed to the intermediate formation of a binuclear complex which exhibits a double polarizing effect. The ethylenediaminetetraacetate concentration vs. decomposition reaction rate curves were presented and discussed. One reference to a Hungarian publication. Orig. art. has 2 graphs and 1 figure.

Card 1/2

L 1186-66

ACCESSION NR: AT5025194

ASSOCIATION: Institute of Inorganic and Analytical Chemistry, A. Jánosf University,
Szeged; Reaction Kinetical Research Group of the Hungarian Academy of Sciences,
Szeged

SUBMITTED: 09Sep64

ENCL: 00

SUB CODES: 00, 00

NO REF Sov: 000

OTHER: 001

JRS

Card 2/2

L 1182-66 EmP(t)/EmP(b) IJP(c) JD/JG
ACCESSION NR: AT5025197

HU/2502/64/042/004/0343/0349

AUTHOR: Beck, Mihaly T. (Bek, M. T.) (Doctor) (Szeged); Gimasi, Istvan (Gimasi, I.)

TITLE: Effect of the ligand on the activation of molecular hydrogen by monovalent silver ions

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 42, no. 4, 1964, 343-349

TOPIC TAGS: fluoride, ion, silver, hydrogen, carbon monoxide, polarization

ABSTRACT: Fluoride ions significantly enhanced the reaction of monovalent silver with molecular hydrogen or with carbon monoxide. The effect was explained by the concerted action of the central ion and the ligand. In considering the steric conditions it must be assumed that the fluoride ion exerts its polarizing effect through a hydrogen bridge by inserting a water molecule between the fluoride and the hydrogen. On the basis of the activation effect, the stability constant of monofluoro-silver (I) complex was determined. Orig. art. has 11 formulas, 3 graphs, and 2 tables.

Card 1/2

I. 1182-66

ACCESSION NR: AT5025197

ASSOCIATION: Institute of Inorganic and Analytical Chemistry, A. József University,
Szeged; Reaction Kinetical Research Group of the Hungarian Academy of Sciences,
Szeged

SUBMITTED: 09Sep64

ENCL: 00

SUB CODE: OC, GO

NO HEF SOV: 000

OTHER: 009

JPRS

Card 2/2: *[Signature]*

C.1
BECK, M. [T.]

Determination of aluminum. Mihály Beck (Univ. Szeged, Hung.). *Magyar Kém. Folyóirat* 36, 357 (1930).— The soln. is treated with an excess NaOH, dilut. to a known vol., and an aliquot portion titrated with 0.1 N HCl in the presence of methyl red. Another portion is titrated, after the addn. of a neutral KF or NaF soln., similarly with 0.1 N HCl in the presence of methyl red. The difference between the 2 titrations shows directly the Al content, 1 ml. 0.1 N HCl = 0.899 mg. Al, according to the following equations: $\text{Na}_3\text{AlO}_2 + 6 \text{NaF} + 2 \text{H}_2\text{O} = \text{Na}_2\text{AlF}_6 + 6 \text{NaOH}$ and $\text{Na}_3\text{AlO}_2 + 3 \text{HCl} = \text{Al(OH)}_3 + 3 \text{NaCl}$. Since the presence of SiO_2 is detrimental, the titrations should be made with flasks, the inner surface of which has been coated previously with paraffin film. István Pindl

M. Beck

5. New method for the alkalimetric determination of aluminium-Uj
Kódzser az aluminium alkalmetriás meghatározásáról--by M. Beck and Z.
Szabó. (Hungarian Journal of Chemistry--Magyar Kémiai Folyóirat--Vol.
57, No. 5, pp. 113-115, May 1951, 3 tabs.)

Various researchers have often advanced very contradictory prescriptions for the alkalimetric determination of aluminium. A critical analysis of the methods proposed thus far has led to the elaboration of a new process in which the titration for the determination of the aluminium ions is effected in an alkaline medium and two measurements are executed. One aliquot portion of the aluminate stock solution is titrated with 0.1 N hydrochloric acid until the aluminium hydroxide is completely precipitated. This is registered by the colour change of the neutral red indicator. Another part of the stock solution is treated with an alkaline fluoride solution and titrated to the same pH. By multiplying the difference between the two titrations with 0.899 the aluminium ion content of the solution is obtained in mg. With the exception of silicon ions, no other ions generally accompanying the aluminium have a disturbing effect on determination. Therefore, it is advisable to perform the titration in paraffin treated flasks and to store the required reagents in paraffin lined containers.

(1)

61 Bevacqua

7

Alkalimetric determination of aluminum. Michael Beck
and Zoltán O. Szabó (Univ. Szeged, Hung.). *J. Anal. Chem. Acta* 6, 316-321(1953)(in English).—In deter. Al⁺⁺⁺, the titration is carried out from the alk. side and 2 measurements are performed. An aliquot of the aluminum stock soln. is titrated with 0.1 N HCl to complete pptn. of Al(OH)₃, as indicated by the color change of neutral red. Another aliquot of the stock soln. is mixed with alkali fluoride and titrated to the same pH. The difference of the 2 titrations, multiplied by 0.009, gives the mg. of Al⁺⁺⁺. L. A. S.

Beck M.T.

o Data on inorganic paper chromatography
Report No. 100-184-049
Received from the Bureau of Mines No. 100-184-049

When applying chromatographic techniques to inorganic chemistry
and the analysis of inorganic mixtures

HUNG :

Hydrogen peroxide stabilized by titanium(IV) ions as a volumetric standard solution (direct determination of ceric ions by titration) - A titán(IV)-stabilizált hidroxiperoxid mint-véroxigátor, mérőoldat. (A cerium(IV) ion meghaladóra Általános feldolgozásai) M. Beck, (Hungarian Journal of Chemistry = Magyar Kémiai Folyóirat = Vol. 59, 1953, No. 10, pp. 317-319, 3 figs., 2 tabs.)

Titanium(IV) sulfate is transformed by the action of hydrogen peroxide into peroxy-titanyl sulfate, a compound similar in some reactions to hydrogen peroxide. Due to its greater stability (resistance to the decomposing action of air and heat) the compound is suitable to be used as a standard solution in volumetric determinations. Determination of ceric ions in the concentration range of 0.1% was carried out without using an indicator, attaining an accuracy of $\pm 0.2\%$. For end point titration either the colorimetric or the potentiometric method may be used.

HUNG,

, Relation between the "iso-electric point" and the
stability of complex compounds - Komplexverbindungen
und deren "Isoelektrische Punkte" - Z. Anorg. Allg.
Chem. (Berl.) 1933, Vol. 20, No. 11, pp. 326-332
(Eng.)

The stability constant of complex compounds can be determined by studying solubility as a function of ligand concentration. A number of experiments have proved that there is a minimum value for solubility — in case of complex formation — at a certain ligand concentration. This minimum is due to complex formation. It can be shown that minimum solubility represents the "iso-electric point" the definition of which is given by the following equation

$$\begin{aligned} I = \frac{1}{n} \sum_{i=1}^n & (n - mg) [MgX_g^{(n-m)}] + \\ & \sum_{i=1}^m (mg - n) [MgX_g^{(m-n)}] \end{aligned}$$

On the basis of data cited in literature, the following values can be obtained for the stability constants of silver-hydros complexes: $K_1 = 3.07 \times 10^{-3}$; $K_2 = 7.81 \times 10^{-4}$; $K_3 = 8.6 \times 10^{-5}$.

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9"

DECK, M/T

HUNG.

✓628. The aluminium - morin reaction. II. Colorimetric determination of fluoride ions. M. T. Beck
(Acta Chim. Hung., 1954, 8 (2-3), 275-285). The colorimetric determination of fluoride ions is based on the observation that they reduce the extinction value of the Al - morin complex. Measurements are effected in \approx 80 per cent ethanol, thus giving quick reaction and eliminating the effect of anions often accompanying fluoride ions (NO_3^- , Cl^- , Br^- , I^- , SO_4^{2-}). The calibration curve is made by using 10 ml of a 1.6×10^{-4} M solution of Al - morin complex, 10 ml of ethanol, and varied amounts of neutral 5×10^{-4} M KF with water to 25 ml. Experiments are carried out below 16°C on a Pulfrich photometer equipped with an S42 filter.
H. WERN

✓
Met

Beck, M.T.

✓Correlation between the "isoelectric point" and stability -
of complex compounds. M. T. Beck (Univ. Szeged).
Acta Chim. Acad. Sci. Hung. 1954, 17, 115-123 (in English).--
The min. solv. of a complex, resulting from complex formation
in soln., coincides with the isoelec. point (where a
"isoelec. point" refers specifically to a series of successive
complexes rather than to the usual single ampholytic
complex). This allows the use of the term for any complexes
where, owing to complex formation, a certain type of ion may
alternately have pos. and neg. charges). Using data from
the literature, B. calcd. the stability const. of the hydroxo
complexes of Ag. | Philip S. Baker

B E C K M I

H U N G .

The paper chromatography of amino acids. M. T. Beck and P. Elbrey (Univ. Szeged, Hung.). Acta Chim. Acad. Sci. Hung. 6, 231-9 (1934) (in English). In paper chromatography of mixts. of amino acids, the individual R_f values are affected by the presence of the other amino acids in the mixt. Such results can be interpreted in terms of reaction of the amino acids with each other through the amino and carboxyl groups. Thus this difficulty can be overcome by eliminating either the amino or the carboxyl group from the mol. prior to chromatography. The best methods involve treating the amino acids with HNO_3 , $HCHO$, or diazotrofluorobenzoic.

A. L. Underwood

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9

~~Transcription of the completed document from page 1 of file~~

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000204120012-9"

BECK MT

3

6

HUNG

1529. Spectrophotometric determination of uranium with morin. M. T. Beck and E. Plantier (Magyar Kem. Foly., 1933, 60 [8], 244-247).—The uranyl ion forms a stable complex with morin at pH 4 to 7, the ratio of UO_2^{+2} to morin being 1 to 9. The properties of this compound make a precise spectrophotometric and colorimetric determination of U possible.

P. H.A.13

Ans 2 good

Beck, H. T.

/Hydrogen peroxide stabilized by titanium(IV) ions as a titrimetric measuring solution. Determination of cerium(IV) ions by direct titration. M. T. Beck (Univ. Szeged).

Acta Chim. Acad. Sci. Hung. 59-200-14 (1985). CM

A soln. of H_2O_2 stabilized by Ti^{IV} ions readily lends itself to the detm. of Ce^{IV} ions. The activity of the titrating soln. proved to be stable. Application of an indicator is not necessary because of the intense red color of the measuring soln. Adequate acidity (10% H_2SO_4) and heating to about 50° are required during the titration in order to avoid pptns. of basic Ti and Ce salts and to accelerate the rate of reaction. The titration end point can be observed accurately only at slightly elevated temps. G. H. Gross

G-EERÉY, Piroska.; BECK, Mihaly.

Paper chromatography of amino acids. Kísérletes orvostud. 7 no.2:
145-149 Mar 55.

1. Szegedi Orvostudományi Egyetem Gyermekklinikája és Szegedi
Tudományegyetem Szervetlen és Analitikai Kemiai Intézete.
(AMINO ACIDS, determination,
chromatography)
(CHROMATOGRAPHY,
of amino acids)

Distr: 4520(j)

Paper chromatography of amino acid-metal complexes. M. L. Beck and J. Czerny (Univ. Szeged). Acta Chim. Acad. Sci. Hung. 7, 465-6 (1965).—The interfering reactions occurring in the paper chromatography of amino acids can be eliminated by using, instead of the free acids, their Cu complexes. These complexes are prepd. by shaking a H₂O soln. of the acids with CuCO₃. The ascending technique with dioxane-H₂O (80:20) was used. Three development methods were used: (1) The complex was decomposed with thiocyanate (III) and the amino acid developed with ninhydrin. (2) A 0.3% BrOH soln. of rubanic acid or 8-hydroxy-quinoline was used. (3) After developing the metal with 2, the amino acid is developed with I. This is the most sensitive. R_f value for the amino acid-Cu complexes of glutamic acid is 0.31, glycine 0.29, arginine 0.07, alanine 0.36, proline 0.41, and lysine 0.03. The R_f values of the metal complexes of glycine with Cu, Ni, Co, and UO₂ are given.

R. M. Fowler

6
2-may